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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/667,057	09/22/2003	Mikiya Suzuki	KAW-0016	7838
23413 7:	590 03/22/2006	6 EXAMINER		INER
CANTOR COLBURN, LLP			HUGHES, DEANDRA M	
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
		·	3663	

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/667,057	SUZUKI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Deandra M. Hughes	3663				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)[Responsive to communication(s) filed on 09 Ja	nuary 2006.					
,		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)□	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>09 January 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* S	see the attached detailed Office action for a list	of the certified copies not receive	d.				
A44	MAN.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-6) Other:							

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DETAILED ACTION

Response to Amendment

1. The amendment filed 1/9/06 has been received and entered.

Drawings

2. The objection to the drawings is withdrawn.

Claim Rejections - 35 USC § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-7 and 11-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Kelkar (US 6,646,789 filed Feb. 22, 2002).

**The references made herein are done so for the convenience of the applicant.

They are in no way intended to be limiting. The prior art should be considered in its entirety.

With regard to claims 1 and 5, Keklar discloses an optical module (<u>fig. 6A-6F</u>) comprising:

- an inlet side optical fiber (e.g see fig. 6F, input fiber to #50);
- an optical filter (the section between #50 and #56) optically connected to said inlet side optical fiber;
- an outlet side optical fiber (e.g., see fig. 6F, output fiber of #56) optically connected to said optical filter wherein said optical filter comprises a gain-slope compensation optical filter (e.g., col. 8, lines 45-60) for flattening a gain slope generated by the variation of input signals of an optical (col. 15,

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<u>lines 25-35</u>) amplifier connected to (<u>fig. 3</u>) said inlet side optical fiber or said outlet side optical fiber.

The Examiner considers the claim language identified in italics above to be a functional limitation, i.e. intended use. While features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function alone. Since the structural limitations have been met by the prior art, the Examiner has reason to believe that the function limitation can be performed by the prior art structure. See MPEP 2114.

With regard to claims 2-3, Keklar discloses a dielectric thin-film filter comprising a grating (fig. 6D).

Claim 4 is being construed as a Product-by-Process claim. Since the claimed product appears to be the same as that of the prior art, applicant is required to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. MPEP 2113 and In re Marosi, 218 USPQ 289, 292 (Fed. Cir. 1983).

With regard to claim 6, the optical amplifier is an Erbium Doped Fiber amplifier (col. 5, line 60). Erbium is a rare-earth.

With regard to claim 7, the filter module is located between the inlet side optical amplifier (fig. 3, #12a) and the outlet side optical amplifier (fig. 3, #12b).

Claims 11-12 are merely the method of operation of the apparatus as claimed.

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Claim Rejections - 35 USC § 103

5. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelkar (US 6,646,789 filed Feb. 22, 2002) in view of Payne (US 5,260,823 published Nov. 9, 1993).

Keklar does not specifically disclose frequency division multiplexing prior to wavelength division multiplexing. However, Payne teaches that a gain-flattening filter between two EDFs (fig. 5) is well suited for FDMing or WDMing (col. 4, lines 20-25). It would have been obvious to one of ordinary skill (e.g., an optical engineer) in the art at the time the invention was made to FDM prior to WDMing for the advantage of an EDF with a flat spectral gain.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deandra M. Hughes whose telephone number is 571-272-6982. The examiner can normally be reached on M-F, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Øeandra M Hughes Examiner

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